

Anti-Alpha-Smooth Muscle Actin (1A4)-141Pr

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog number: 3141017D

Package size and concentration: 25 µg, 0.5 mg/mL

Clone: 1A4

Isotype: Mouse IgG2a

Pathologist-verified on: Human FFPE, Human Frozen

Fluidigm tested on: Human FFPE, Human Frozen, Mouse FFPE

Reported reactivity: Human, Mouse

Formulation: Antibody stabilizer with 0.05% sodium azide

Storage: Store at 4 °C. Do not freeze.

Application: IMC paraffin, IMC frozen

Technical Information

Description: Alpha-smooth muscle actin is a 42 kDa cytoskeletal protein expressed in smooth muscle cells of blood vessels, myofibroblasts, and myoepithelial cells. It also is found in tumors of smooth muscle and myoepithelial origin.

Application: The metal-tagged antibody is designed and formulated for the application of Imaging Mass Cytometry™ (IMC™) using the Fluidigm Hyperion™ Imaging System on formalin-fixed, paraffin-embedded (FFPE) tissue sections, and frozen tissue sections.

Quality control: Each lot of conjugated antibody is quality control- tested by Imaging Mass Cytometry on tissue sections

Recommended concentration: For optimal performance it is recommended that the antibody be titrated for the desired application. Suggested initial dilution range:

IMC-Paraffin: 1:100 to 1:400

IMC-Frozen: 1:50 to 1:200

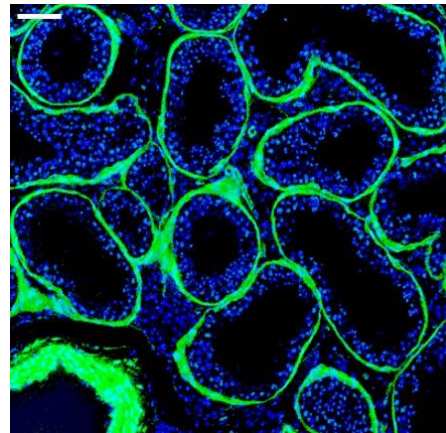
References

Chang, Q. et al. "Staining of frozen and formalin-fixed, paraffin-embedded tissues with metal-labeled antibodies for Imaging Mass Cytometry analysis." *Current Protocols in Cytometry* 82 (2017): 12.47.1–12.47.8.

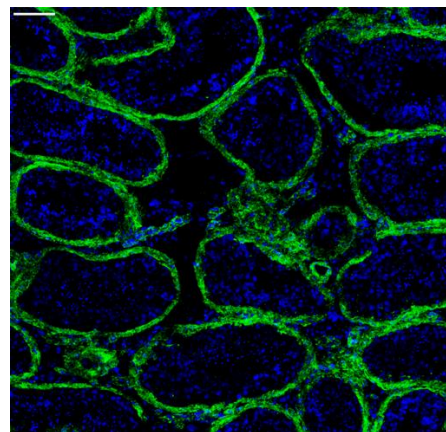
Giesen, C. et al. "Highly multiplexed imaging of tumor tissues with subcellular resolution by mass cytometry." *Nature Methods* 11 (2014): 417–22.

Safety

Use standard laboratory safety protocols. Read and understand the safety data sheets (SDSs) before handling chemicals. To obtain SDSs, go to fluidigm.com/sds and search for the SDS using either the product name or the part number.



Human testis (FFPE) stained with 141Pr-anti-aSMA (1A4) at a dilution of 1:200 (green pseudocolor) and iridium DNA intercalator (blue pseudocolor). Heat-mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. Scale bar size = 100 µm.



Human frozen testis stained with 141Pr-anti-aSMA (1A4) at a dilution of 1:400 (green pseudocolor) and iridium DNA intercalator (blue pseudocolor). Tissue section was fixed in 4% paraformaldehyde for 30 minutes at 4 °C. Scale bar size = 100 µm.

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